CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No. CTCE/BBMP/W.No.03/RVK/CSR-05/325v/CEMENT/2017-18 Date: 04.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer**, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijaykumar,** No.48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	:	Providing RCC covering slab to Main and Cross Roads of G Ramaiah Enclave in Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/165/2017-18 Dated: 02.05.2017
* Sample ID	:	Cement
Sample Received on	:	02.05.2017
Period of Testing	:	02.05.2017 to 04.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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AE W3

AE-03

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Job No.: CTCE/BBMP/W.No.03/RVK/CSR-05/325v/SAND-Gradation/2017-18 04.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	: **Mr. R. Vijaykumar,** No.48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	: Providing RCC covering slab to Main and Cross Roads of G Ramaiah Enclave in Ward No.03, BBMP, Bangalore.
* Reference	: BBMP/AEE/YSTSD/165/2017-18 Dated: 02.05.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 02.05.2017
Date of Testing	: 04.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	81.80	60-95	75-100	85-100	95-100
1.18	62.80	30-70	55-90	75-100	90-100
600 Micron	47.80	15-34	35-59	60-79	80-100
300 Micron	22.80	5-20	8-30	12-40	15-50
150 Micron	4.80	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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AE W3

AE-02

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Job No.: CTCE/BBMP/W.No.03/RVK/CSR-05/325v/CC Solid Block/2017-18 04.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijaykumar,** No.48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	:	Providing RCC covering slab to Main and Cross Roads of G Ramaiah Enclave in Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/165/2017-18 Dated: 02.05.2017
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 100mm x 200mm
Cross Sectional Area	:	40000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	02.05.2017
Date of Testing	:	04.05.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	17.65	144.3	3.61	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	18.39	145.2	3.63	
3	Block 3	19.35	140.2	3.51	
4	Block 4	17.60	141.6	3.54	
5	Block 5	18.52	143.5	3.59	
6	Block 6	19.25	142.8	3.57	
7	Block 7	18.25	143.2	3.58	
8	Block 8	19.36	140.5	3.51	

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AE W3

AE-03

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Job No.: CTCE/BBMP/W.No.03/RVK/CSR-05/325v/CC Solid Block/2017-18 04.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijaykumar,** No.48/5, C Block, Sahakarnagara, Bangalore.
* Name of Work	:	Providing RCC covering slab to Main and Cross Roads of G Ramaiah Enclave in Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/165/2017-18 Dated: 02.05.2017
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	02.05.2017
Date of Testing	:	04.05.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	35.62	281.5	3.52	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	36.39	282.6	3.53	
3	Block 3	35.19	285.2	3.57	
4	Block 4	36.35	286.3	3.58	
5	Block 5	35.48	282.4	3.53	
6	Block 6	36.38	283.5	3.54	
7	Block 7	35.48	284.6	3.56	
8	Block 8	36.28	285.9	3.57	

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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AE W3 AE-03 **********

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Job No.: CTCE/BBMP/W.No.03/RVK/CSR-05/325v/Cube/2017-18 14.07.20 7

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. R. Vijaykumar,** No.48/5, C Block, Sahakarnagara, Bangalore.
* Name of the work	:	Providing RCC covering slab to Main and Cross Roads of G Ramaiah Enclave in Ward No.03, BBMP, Bangalore.
* Reference	:	BBMP/AEE/YSTSD/165/2017-18 Dated: 02.05.2017
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.07.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.06.2017	14.07.2017	8.162	369.6	16.43
2	16.06.2017	14.07.2017	8.235	372.5	16.56
3	16.06.2017	14.07.2017	8.335	390.4	17.35

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AE-03 AE-03

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